

DOCKET: CU 2740

PATENT

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Application: Robert J. HAUBER, et al.	]	Parent Application Data
Serial No.:	]	Serial No.: 09/875,733
Filed: November 30, 2001	]	GRP ART UNIT : 1772
For: METHOD OF MANUFACTURE OF GLASS REINFORCED GYPSUM BOARD AND APPARATUS THEREFOR ( As Amended)	]	Ex.: P. Nordmeyer

Commissioner for Patents  
Washington, D.C. 20231

**PRELIMINARY AMENDMENT**

Sir:

Prior to the examination of this divisional application, please enter the following

Preliminary Amendment:

**IN THE TITLE:**

Please delete the title and substitute therefor the following title:

--METHOD OF MANUFACTURE OF GLASS REINFORCED GYPSUM BOARD AND  
APPARATUS THEREFOR--.

**IN THE SPECIFICATION:**

After the Title and prior to the Heading "BACKGROUND OF THE INVENTION", please  
insert the following paragraph:

--CROSS-REFERENCE TO RELATED APPLICAITONS

This application is a divisional of U.S. Patent Application No. 09/875,733, filed on June 6,  
2001.--

Please delete the paragraphs in the specification at page 8, lines 18-22 and substitute therefor the following new paragraphs attached on the clean copy thereof.

Please delete the two paragraphs from the specification staring at page 28, line 24 and ending at page 29; line 10, and substitute therefor the attached paragraphs set forth for substitution at the pages indicated.

Please delete the paragraph from the specification staring at page 31, lines 15-21, and substitute therefor the attached paragraph set forth for substitution as indicated.

Please delete the paragraph from the specification staring at page 32, line 9, and ending at page 33 line 3, and substitute therefor the attached paragraph set forth for substitution as indicated.

**CLEAN COPY OF PARAGRAPHS  
AT PAGE 8, LINES 18-22**

Fig. 9 is a top view in detail of the edger flapper bar shown in Fig. 8;

Fig. 10 is a detailed side view of the edger flapper bar feature shown in Fig. 8; and

Fig. 11 is a detailed, cross-sectional, diagrammatical view of a gypsum board traveling through the edger bar assembly according to the present invention as shown in Figs. 8-10, as viewed from the left of Fig. 8.

**CLEAN COPY OF PARAGRAPHS  
AT PAGE 28, LINE 24 to PAGE 29, LINE 10**

Similar to edger bar assembly 98, edger bar assembly 298 also includes an edger bar seat 306, upon which the remaining elements of edger bar assembly ride. Bar seat 302 includes an aperture 308, and two or more vertical secondary apertures 309 for providing orientation and stabilization for the edger bar.

Edger bar assembly 298 includes a modified edger bar 250 having edger bar mounting extensions 252 extending laterally from the edger bar 250 and in to the apertures 308, one at either lateral edge of the assembly 298. As is best seen in Fig. 9, the edger bar extensions 252 extend beyond the lateral edge of the conveyor belt 184, where they engage the stabilizer portions of the edger bar assembly 298. The vertical position of the edger bar assembly 298, and of the edger bar 250, and the separation between the edger bar 250 and the top surface of the conveyor belt 184 is controlled to maintain a desirable thickness of the gypsum plaster board 190.

**CLEAN COPY OF PARAGRAPH  
AT PAGE 31, LINES 15-21**

Edger bar assembly 298 further includes an edger flapper mechanism that is mounted onto the edger bar 250 by an appropriate attachment means, may engage both the edger bar extensions 252 and through appropriate apertures 309, which may be threaded, in the mounting arm 302. The attachment of the edger bar assembly 298 to the mounting stabilizer device 297 through mounting base 304 provides for a unitary edging mechanism that creates a smooth surface 94 and simultaneously provides a smooth gypsum layer on the edges 95 of the gypsum board.

**CLEAN COPY OF PARAGRAPH  
AT PAGE 32, LINE 9 TO PAGE 33 LINE 3**

The edge flapper mechanism 262 is disposed on the edger bar 250, and attached thereto by an appropriate means for example, as described above relative to the edger bar assembly 98 (Figs. 4-6). Referring now to Figs. 10 and 11, one flapper 322 is disposed over the flaps 320, and can pivot relative thereto as a result of a pivotal spring hinge 274, which attaches the flapper 322 to the edger bar 250. As in the edge flapper 162, the spring hinge 274 provides a tensional force to abut the edge flapper 322 against surface 95 rotationally about the spring hinge 274, the spring hinge 274 providing sufficient force to retain contact between an inner surface 324 of the edge flapper 322 and the gypsum board longitudinal edge 95. The force of spring hinge 274 counters the horizontally directed pressure of the slurry head 199. The edge flapper 320 may include a compression activated lifting lever 326, which assists in forcing the flappers 322 to rotate upwardly when the assembly 298 is raised away from surface 94. The specific arrangement of the edger bar assembly 298 disposes the edge flapper mechanism 262 directly against the longitudinal edge 95 of the gypsum board. However, the configuration differs from that of edger bar assembly 98 in that the edger bar extension 252 extends away from the edge flapper mechanism 262 so as to remove and somewhat isolate the extension and elevational controls 297 from the edge flapper mechanism 262. This configuration does not impact greatly on the operational efficiency of the edge flapper 322 or the edger bar 250, which provides similar functions to that of the edger bar assembly 98 in a similar way, but the configuration tends to maintain the pneumatic devices free and clear of gypsum slurry so as to avoid problems with the operations thereof.

**IN THE CLAIMS:**

Please cancel Claims 18-22, without prejudice. Claims 18-22 are the subject of the parent application, U.S. Application Ser. No. 09/875,733.

**REMARKS**

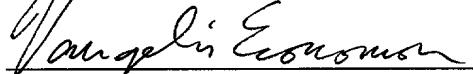
By this Preliminary Amendment, several discrepancies and typographical errors noted in the specification have been corrected so as to conform the specification text with the drawing figures attached to the application documents.

The above clean copies of the separate paragraphs include the amendments. Marked up copies of the separate paragraphs, indicating the amendments, are attached hereto.

Also submitted contemporaneously herewith is an Information Disclosure Statement, without the copies of the references. The Examiner is invited to review the copies of the references in the parent application, U.S. Application Ser. No. 09/875,733, in accordance with 37 C.F.R. §1.97(d) and MPEP §609, and to return the Form PTO-1449 with the Examiner's initials indicating the consideration of the references cited in the earlier application.

November 30, 2001

Respectfully submitted,



Vangelis Economou -Reg. No. 32,341

c/o Ladas & Parry

224 South Michigan Avenue - Suite 1200

Chicago Illinois 60604

Tel. No. (312) 427-1300

**MARKED UP COPY OF PARAGRAPHS  
AT PAGE 8, LINES 18-22**

Fig. 9 is a top view in detail of the edger flapper bar shown in Fig. [9] 8;  
Fig. 10 is a detailed side view of the edger flapper bar feature shown in Fig. [4] 8; and  
Fig. 11 is a detailed, cross-sectional, diagrammatical view of a gypsum board traveling  
through the edger bar assembly according to the present invention as shown in [Figs . 8-10] Figs.  
8-10, as viewed from the left of Fig. 8.

**MARKED UP COPY OF PARAGRAPHS  
AT PAGE 28, LINE 24 to PAGE 29, LINE 10**

Similar to edger bar assembly 98, edger bar assembly 298 also includes an edger bar seat 302 [306], upon which the remaining elements of edger bar assembly ride. Bar seat 302 [306] includes an aperture 308, and two or more vertical secondary apertures 309 for providing orientation and stabilization for the edger bar.

Edger bar assembly 298 includes a modified edger bar 250 having edger bar mounting extensions 252 extending laterally from the edger bar 250 and in to the apertures 308, one at either lateral edge of the assembly 298. As is best seen in Fig. 9, the edger bar extensions 252 extend beyond the lateral edge of the conveyor belt 184, where they engage the stabilizer portions of the edger bar assembly 298. The vertical position of the edger bar assembly 298, and of the edger bar 250, and the separation between the edger bar 250 and the top surface of the conveyor belt 184 is controlled to maintain a desirable thickness of the gypsum plaster board [95] 190.

**MARKED UP COPY OF PARAGRAPH  
AT PAGE 31, LINES 15-21**

Edger bar assembly 298 further includes an edger flapper mechanism that is mounted onto the edger bar 250 by an appropriate attachment means, may engage both the edger bar extensions 252 and through appropriate apertures [308] 309, which may be threaded, in the mounting arm 302. The attachment of the edger bar assembly 298 to the mounting stabilizer device 297 through mounting base 304 provides for a unitary edging mechanism that creates a smooth surface 94 and simultaneously provides a smooth gypsum layer on the edges 95 of the gypsum board.

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